<u></u>	Application No.	Applicant(s)
Notice of Allowability		
	10/804,390 Examiner	SHONO, MASAYOSHI Art Unit
	John B. Sotomayor	3662
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub-	nis application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-10</u> .		
3. The drawings filed on 18 March 2004 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the OGICAL MATERIAL.
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Infor	mal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	nmary (PTO-413), ail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	98), 7. ☐ Examiner's Ar	mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	<u></u>	atement of Reasons for Allowance
of Biological Material	9. 🔲 Other	



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DETAILED ACTION

Drawings

1. The drawings filed March 18, 2004 are acceptable.

Information Disclosure Statement

- 2. The Information Disclosure Statement filed March 18, 2004 has been entered and considered. An initialed copy of the PTO-1449 by the Examiner is attached.
- 3. The Information Disclosure Statement filed August 30, 2004 has been entered and considered. An initialed copy of the PTO-1449 by the Examiner is attached.
- 4. The Information Disclosure Statement filed September 7, 2004 has been entered and considered. An initialed copy of the PTO-1449 by the Examiner is attached.

Priority

5. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

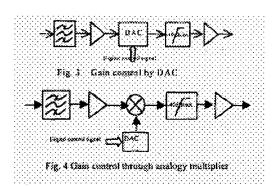
6. Claims 1-10 are allowed.

Examiner's Reasons for Allowance

7. The following is an examiner's statement of reasons for allowance:

The prior art fails to render obvious the claimed transmit-receive FMCW apparatus including, inter alia, having a gain control amplifier in the transmit path or receive path whereby the amplifier suppresses the first half of the receive timing interval when in the receiver path; or the amplifier suppresses the second half of the transmit timing interval when in the transmit path as functionally claimed.

The closest prior art, the article to Liang et al, show two popular open-loop gain control methods (see Figures 3 and 4 reprinted below).



However, Liang et al fail to render obvious the claimed gain control and suppression of either a first timing interval of the receive path or the second timing interval of the transmit path.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art show various radar and gain control systems.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Sotomayor whose telephone number is 571-272-6978. The examiner can normally be reached on Monday to Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom H. Tarcza, can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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